

Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0404

Project: 19-0404, Rockwell International Wheel & Trim - Reported by Daniel Adams

August 29, 2019

#### 4LSASD-LSB

### **MEMORANDUM**

**SUBJECT:** FINAL Analytical Report

Project: 19-0404, Rockwell International Wheel & Trim

FROM: Daniel Adams

ICS Analyst

THRU: Floyd Wellborn, Chief

LSB Inorganic Chemistry Section

**TO:** Shelby Johnston

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:	
Classical/Nutrient Analyses (CNA)			_
Classical/Nutrients	ASB 107C (Soil)	ISO	
Classical/Nutrients	EPA 300.0 (Water)	ISO	
Classical/Nutrients	SM 2320B (Water)	ISO	
Classical/Nutrients	SM 5310B (Water)	ISO	
Nitrate and/or Nitrite	EPA 353.2 (Water)	ISO	



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#### Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

cc: Nardina Turner



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### SAMPLES INCLUDED IN THIS REPORT

### Project: 19-0404, Rockwell International Wheel & Trim

Sample ID	Laboratory ID	Matrix	<b>Date Collected</b>	<b>Date Received</b>
MIHPT20GW39	E193103-01	Groundwater	7/28/19 15:30	7/30/19 10:10
MIHPT23SB15	E193103-02	Subsurface Soil	7/29/19 09:00	7/30/19 10:10
MIHPT51GW25	E193103-03	Groundwater	7/27/19 17:00	7/30/19 10:10
MIHPT57GW29	E193108-01	Groundwater	7/29/19 15:45	8/2/19 10:00
MIHPT957GW29	E193108-02	Groundwater	7/29/19 15:45	8/2/19 10:00
MIHPT58SB20	E193108-03	Subsurface Soil	7/30/19 12:10	8/2/19 10:00
MIHPT05GW52	E193109-01	Groundwater	7/31/19 15:53	8/2/19 10:00
MIHPT22GW20	E193109-02	Groundwater	8/1/19 15:10	8/2/19 10:00
MIHPT22GW31	E193109-03	Groundwater	8/1/19 14:10	8/2/19 10:00
MIHPT22GW44	E193109-04	Groundwater	8/1/19 13:30	8/2/19 10:00
MIHPT58GW20	E193109-05	Groundwater	7/30/19 17:15	8/2/19 10:00



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#### **DATA QUALIFIER DEFINITIONS**

- U The analyte was not detected at or above the reporting limit.
- P-4 Sample received at pH > 2.

#### ACRONYMS AND ABBREVIATIONS

#### CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

- MDL Method Detection Limit The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

### ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at: http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR The EPA Region 4 Laboratory has not requested accreditation for this test.



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT20GW39 Lab ID: E193103-01
Station ID: MIHPT20 Matrix: Groundwater

Date Collected: 7/28/19 15:30

CAS							
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	85	mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	41	mg/L	0.10	8/20/19 12:34	8/21/19 17:55	EPA 300.0
E701250	Total Organic Carbon	1.5	mg/L	1.0	8/08/19 16:07	8/09/19 15:01	SM 5310B
E701177	Nitrate/Nitrite as N	0.050 U, P-4	mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT23SB15 Lab ID: E193103-02
Station ID: MIHPT23 Matrix: Subsurface Soil

Date Collected: 7/29/19 9:00

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	12000 <b>U</b>	mg/kg dry	12000	8/08/19 16:11	8/14/19 13:55	ASB 107C



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT51GW25 Lab ID: E193103-03
Station ID: MIHPT51 Matrix: Groundwater

Date Collected: 7/27/19 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	84		mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	34		mg/L	0.10	8/20/19 12:34	8/21/19 18:37	EPA 300.0
E701250	Total Organic Carbon	3.2		mg/L	1.0	8/08/19 16:07	8/09/19 16:16	SM 5310B
E701177	Nitrate/Nitrite as N	0.38		mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT57GW29 Lab ID: E193108-01
Station ID: MIHPT57 Matrix: Groundwater

Date Collected: 7/29/19 15:45

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	29	mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	29	mg/L	0.10	8/20/19 12:34	8/21/19 19:19	EPA 300.0
E701250	Total Organic Carbon	1.1	mg/L	1.0	8/08/19 16:07	8/09/19 16:40	SM 5310B
E701177	Nitrate/Nitrite as N	0.050 U	mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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### **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT957GW29 Lab ID: E193108-02
Station ID: MIHPT57 Matrix: Groundwater

Date Collected: 7/29/19 15:45

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	29	mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	28	mg/L	0.10	8/20/19 12:34	8/21/19 19:40	EPA 300.0
E701250	Total Organic Carbon	1.3	mg/L	1.0	8/08/19 16:07	8/09/19 17:04	SM 5310B
E701177	Nitrate/Nitrite as N	0.050 U	mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT58SB20 Lab ID: E193108-03
Station ID: MIHPT58
Matrix: Subsurface Soil

Date Collected: 7/30/19 12:10

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	12000 U	mg/kg dry	12000	8/08/19 16:11	8/14/19 15:40	ASB 107C



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT05GW52 Lab ID: E193109-01
Station ID: MIHPT05
Matrix: Groundwater

Date Collected: 7/31/19 15:53

CAS							
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	31	mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	23	mg/L	0.10	8/20/19 12:34	8/21/19 20:23	EPA 300.0
E701250	Total Organic Carbon	1.0 <b>U</b>	mg/L	1.0	8/08/19 16:07	8/09/19 17:29	SM 5310B
E701177	Nitrate/Nitrite as N	0.24	mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT22GW20 Lab ID: E193109-02
Station ID: MIHPT22 Matrix: Groundwater

Date Collected: 8/1/19 15:10

CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	30	mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	34	mg/L	0.10	8/20/19 12:34	8/21/19 20:44	EPA 300.0
E701250	Total Organic Carbon	1.0 <b>U</b>	mg/L	1.0	8/08/19 16:07	8/09/19 17:53	SM 5310B
E701177	Nitrate/Nitrite as N	0.48	mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT22GW31 Lab ID: E193109-03
Station ID: MIHPT22 Matrix: Groundwater

Date Collected: 8/1/19 14:10

CAS							
Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	7.1	mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	27	mg/L	0.10	8/20/19 12:34	8/21/19 21:05	EPA 300.0
E701250	Total Organic Carbon	1.0 U	mg/L	1.0	8/08/19 16:07	8/09/19 18:17	SM 5310B
E701177	Nitrate/Nitrite as N	0.42	mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT22GW44 Lab ID: E193109-04
Station ID: MIHPT22 Matrix: Groundwater

**Date Collected: 8/1/19 13:30** 

Dute con	ictica. 0/1/17 15.50						
CAS Number	Analyte	Results Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	52	mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	38	mg/L	0.10	8/20/19 12:34	8/21/19 21:26	EPA 300.0
E701250	Total Organic Carbon	2.4	mg/L	1.0	8/08/19 16:07	8/09/19 18:42	SM 5310B
E701177	Nitrate/Nitrite as N	0.050 U	mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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# **Classical/Nutrient Analyses**

Project: 19-0404, Rockwell International Wheel & Trim

Sample ID: MIHPT58GW20 Lab ID: E193109-05
Station ID: MIHPT58 Matrix: Groundwater

Date Collected: 7/30/19 17:15

CAS Number	Analyte	Results	Qualifiers Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	110	mg/L	1.0	8/05/19 8:06	8/05/19 8:06	SM 2320B
14808-79-8	Sulfate as SO4	17	mg/L	0.10	8/20/19 12:34	8/21/19 21:47	EPA 300.0
E701250	Total Organic Carbon	2.0	mg/L	1.0	8/08/19 16:07	8/09/19 19:06	SM 5310B
E701177	Nitrate/Nitrite as N	0.58	mg/L	0.050	8/12/19 13:25	8/13/19 16:41	EPA 353.2



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# Classical/Nutrient Analyses (CNA) - Quality Control US-EPA, Region 4, LSASD

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1908006 - C 2320B Alkalinity										
Blank (1908006-BLK1)				Prepared &	Analyzed:	08/05/19				
SM 2320B										
Alkalinity, Total (as CaCO3)	U	1.0	mg/L							U
LCS (1908006-BS1)				Prepared &	Analyzed:	08/05/19				
SM 2320B										
Alkalinity, Total (as CaCO3)	48.464		mg/L	50.000		96.9	93-114			
LCS Dup (1908006-BSD1)				Prepared &	: Analyzed:	08/05/19				
SM 2320B										
Alkalinity, Total (as CaCO3)	49.368		mg/L	50.000		98.7	93-114	1.85	10	
Duplicate (1908006-DUP1)	Sour	ce: E193108-	02	Prepared &	: Analyzed:	08/05/19				
SM 2320B				-						
Alkalinity, Total (as CaCO3)	29.487	1.0	mg/L		29.419			0.231	10	
MRL Verification (1908006-PS1)				Prepared & Analyzed: 08/05/19						
SM 2320B										
Alkalinity, Total (as CaCO3)	0.94400		mg/L	1.0000		94.4	73-134			MRL-2
Batch 1908022 - C 415 TOC Wtr										
Blank (1908022-BLK1)				Prepared: (	08/08/19 Aı	nalvzed: 08	3/09/19			
SM 5310B				1		<u> </u>				
Total Organic Carbon	U	1.0	mg/L							U
LCS (1908022-BS1)				Prepared: (	08/08/19 At	nalvzed: 08	3/09/19			
SM 5310B				F		,				
Total Organic Carbon	47.510	1.0	mg/L	50.000		95.0	90-110			
LCS (1908022-BS2)				Prepared: (	08/08/19 A+	nalyzed: 08	2/09/19			
SM 5310B				riepared.	,0,00,17 AI	imiyzeu. 00				
Total Organic Carbon	4.9540	1.0	mg/L	5.0000		99.1	90-110			
LCS Dup (1908022-BSD1)				Prepared: (	08/08/19 Aı	nalyzed: 08	2/09/19			
SM 5310B				rrepared. (	,0,00,17 AI	y2.00. 00	,, (), (1)			
Total Organic Carbon	47.240	1.0	mg/L	50.000		94.5	90-110	0.570	10	



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# Classical/Nutrient Analyses (CNA) - Quality Control US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1908022 - C 415 TOC Wtr										
trix Spike (1908022-MS1) Source: E193103-01			Prepared: 08/08/19 Analyzed: 08/09/19							
SM 5310B Total Organic Carbon	51.230	1.0	mg/L	50.000	1.5400	99.4	90-110			
Matrix Spike Dup (1908022-MSD1)	Sou	ırce: E193103	3-01	Prepared: (	08/08/19 A	nalyzed: 08	/09/19			
SM 5310B Total Organic Carbon	51.770	1.0	mg/L	50.000	1.5400	100	90-110	1.05	10	
MRL Verification (1908022-PS1)				Prepared: (	)8/08/19 Aı	nalyzed: 08	/09/19			
SM 5310B Total Organic Carbon	1.1200	1.0	mg/L	1.0000		112	70-130			MRL-2
Batch 1908023 - C ASB107C TOC										
Blank (1908023-BLK1)				Prepared: (	08/08/19 At	nalyzed: 08	/14/19			
ASB 107C Total Organic Carbon	U	12000	mg/kg dry							U
LCS (1908023-BS1)				Prepared: (	08/08/19 Ai	nalyzed: 08	3/14/19			
ASB 107C	10.12.1	12000	<i>a</i> 1	40006		00.0	00.110			
Total Organic Carbon	40424	12000	mg/kg dry	40896		98.8	90-110			
Matrix Spike (1908023-MS1)	Sou	ırce: E193103	3-02	Prepared: (						
ASB 107C Total Organic Carbon	39117	12000	mg/kg dry	40012	U	97.8	90-110			
Matrix Spike Dup (1908023-MSD1)	Sou	ırce: E193103	3-02	Prepared: (	08/08/19 A	nalyzed: 08	3/14/19			
ASB 107C Total Organic Carbon	40190	12000	mg/kg dry	40708	U	98.7	90-110	0.982	20	
MRL Verification (1908023-PS1)				Prepared: (	08/08/19 Ai	nalyzed: 08	3/14/19			
ASB 107C Total Organic Carbon	11004	12000	mg/kg dry	11680		94.2	85-115			MRL-3,
Batch 1908028 - C 353.2 NO3-NO2										U
Blank (1908028-BLK1)				Prepared: 08/12/19 Analyzed: 08/13/19						
EPA 353.2				Tropurou.	,0,12,17 Fu	, 2.50. 00	13/13			



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# Classical/Nutrient Analyses (CNA) - Quality Control US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 1908028 - C 353,2 NO3-NO2											
Blank (1908028-BLK1)				Prepared: 0	08/12/19 Ar	nalyzed: 08	/13/19				
Nitrate/Nitrite as N	U	0.050	mg/L							U	
LCS (1908028-BS1)				Prepared: 0	08/12/19 Ar	nalyzed: 08	/13/19				
EPA 353.2 Nitrate/Nitrite as N	0.49110	0.050	mg/L	0.50150		97.9	90-110				
Matrix Spike (1908028-MS1)	Sou	rce: E193109-	01	Prepared: 0	08/12/19 Ar	nalyzed: 08	/13/19				
EPA 353.2 Nitrate/Nitrite as N	0.72890	0.050	mg/L	0.50150	0.24470	96.6	90-110				
Matrix Spike Dup (1908028-MSD1)	Sou	rce: E193109-	01	Prepared: 08/12/19 Analyzed: 08/13/19							
EPA 353.2 Nitrate/Nitrite as N	0.72980	0.050	mg/L	0.50150	0.24470	96.7	90-110	0.123	10		
Mitrate/Mitrie as N	0.72980	0.030	mg/L	0.30130	0.24470	90.7	90-110	0.123	10		
MRL Verification (1908028-PS1)				Prepared: 08/12/19 Analyzed: 08/13/19							
EPA 353.2 Nitrate/Nitrite as N	0.051300	0.050	mg/L	0.050000		103	70-130			MRL-2	
Batch 1908059 - C 300.0 Ion Chromat											
Blank (1908059-BLK1)				Prepared: 08/20/19 Analyzed: 08/21/19							
<b>EPA 300.0</b> Sulfate as SO4	U	0.10	mg/L							U	
Blank (1908059-BLK2)				Prepared: 08/20/19 Analyzed: 08/21/19							
EPA 300.0 Sulfate as SO4	U	0.10	mg/L							U	
LCS (1908059-BS1)		Prepared: 08/20/19 Analyzed: 08/21/19									
EPA 300.0 Sulfate as SO4	491.09	0.10	mg/L	500.00		98.2	90-110				
LCS Dup (1908059-BSD1)				Prepared: 0	08/20/19 Ar	nalyzed: 08	/21/19				
EPA 300.0 Sulfate as SO4	499.86	0.10	mg/L	500.00		100	90-110	1.77	10		



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# Classical/Nutrient Analyses (CNA) - Quality Control US-EPA, Region 4, LSASD

Spike

%REC

RPD

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1908059 - C 300.0 Ion Chromat	:									
Matrix Spike (1908059-MS1)	Source	e: E193103-	-01	Prepared: (	08/20/19 A	nalyzed: 08	3/21/19			
EPA 300.0										
Sulfate as SO4	247.48	0.10	mg/L		41.331		90-110			MRL-2
MRL Verification (1908059-PS1)				Prepared: (	08/20/19 A	nalyzed: 08	3/21/19			
EPA 300.0										
Sulfate as SO4	0.086000	0.10	mg/L	0.10000		86.0	70-130			MRL-2,
										I.I.



Region 4 Laboratory Services and Applied Science Division 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0404

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### Notes and Definitions for QC Samples

U The analyte was not detected at or above the reporting limit.

MRL-2 MRL verification for Non-Potable Water matrix

MRL-3 MRL verification for Soil matrix